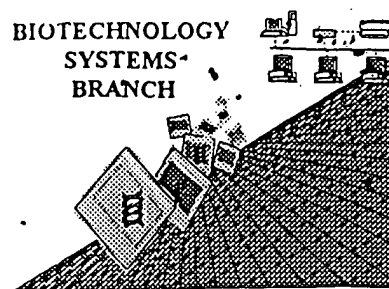


## RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/701926A

Source: PC109

Date Processed by STIC: 11/14/01

**BEST AVAILABLE COPY**

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

### Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 09/201926A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY P

- 1      Wrapped Nucleics  
    Wrapped Aminos      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to 3; this will prevent "wrapping."
- 2      Invalid Line Length      The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII      The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length.      Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)      Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence  
    (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    (i)      SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
    (ii) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    This sequence is intentionally skipped  
  
    Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)      Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence  
    <210> sequence id number  
    <400> sequence id number  
    000
- 9      Use of n's or Xaa's  
    (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
    Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
    In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents
- 10      Invalid <213>  
    Response      Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or Artificial Sequence
- 11      Use of <220>      Sequence(s)      missing the <220> "Feature" and associated numeric identifiers and responses.  
    Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
    (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n      n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

PCT09

## RAW SEQUENCE LISTING

DATE: 11/14/2001

PATENT APPLICATION: US/09/701,926A

TIME: 13:53:41

Input Set : A:\sequencelisting.txt

Output Set: N:\CRF3\11142001\I701926A.raw

3 <110> APPLICANT: THE UNIVERSITY OF QUEENSLAND  
 5 <120> TITLE OF INVENTION: PHENOTYPE MODIFYING GENETIC SEQUENCES  
 7 <130> FILE REFERENCE: 111590-120  
 9 <140> CURRENT APPLICATION NUMBER: 09/701,926A  
 C--> 10 <141> CURRENT FILING DATE: 2000-12-04  
 12 <150> PRIOR APPLICATION NUMBER: PP3901  
 13 <151> PRIOR FILING DATE: 1998-06-04  
 15 <150> PRIOR APPLICATION NUMBER: PP6174  
 16 <151> PRIOR FILING DATE: 1988-09-25  
 18 <150> PRIOR APPLICATION NUMBER: PP6169  
 19 <151> PRIOR FILING DATE: 1998-09-25  
 21 <150> PRIOR APPLICATION NUMBER: PP3903  
 22 <151> PRIOR FILING DATE: 1998-06-04  
 24 <160> NUMBER OF SEQ ID NOS: 39  
 26 <170> SOFTWARE: PatentIn Ver. 2.0

Does Not Comply  
 Corrected Diskette Needed  
*See pages 2, 4 and 8*

Does Not Comply  
 Corrected Diskette Needed

## ERRORED SEQUENCES

82 <210> SEQ ID NO: 3  
 83 <211> LENGTH: 6263  
 84 <212> TYPE: DNA  
 85 <213> ORGANISM: Tomato  
 87 <400> SEQUENCE: 3

*Errored: Must Enumerate Unknown  
 Example  
 Field 221 "unknown"  
 Field 222 (1...6263)  
 Field 223 n = a one on t on g*

88 cgacggcccg ggctggtaaa tgcggaagct tgttacagat ttgaaattta tgtattttatc 60  
 89 tatagcatta gaaactataa gagttgttag cttcacttgg cttactgttg tgctcaaagc 120  
 90 aacttcatca tcatacagta tggttttgat atgctcttcc attatcactg agccttatga 180  
 91 ttatgtttta cgagcttata atatcactga tgggtattca gtattgtgat tatgtccttc 240  
 92 gttgattatt ctgtttcata caagtcgtgt aatttgctgt ttgtgacagt acgatagatc 300  
 93 gactcaacct tctgaggtat tagttgaagt tcatgtaaat tagctttggt tatcatagta 360  
 94 gcatttgatt attgatgctc tgtagcta atgataagccat tggagggaag caagctttct 420  
 95 aaatgaatct acgaatggat gataaagttc atgaatattt ttgttacttc tgcagtcaga 480  
 96 tcatgagtta ttgagtctat tgttttttta agcctgtttc agatgatcca tcatcagtaa 540  
 97 caacatacac ggtgtagtcc caaatccatc atatgcacct tcttttcttc aatttggtct 600  
 98 tgtttttttt ttttcatgat gtcattgaat tattcaagaa gtcacttcga gcataatgat 660  
 99 ttttcaaaat ccacctttgt tcaagcacta ccacgtcttt tcatctagcc cacaaccgtg 720  
 100 gtggaggatc tagaattttc atgaaaggat tcaaaattta caaacatata tatacactat 780  
 101 aactatgaa tccactaata ctagatggtg cacctgtgcc cccactcatg tgaaagccta 840  
 102 ttctcaattt tttattttcc acaacttaaa tacagaccgc acaactcccg tgtcttgtgt 900  
 103 gctcgctcgt cagcatgcaa gtcgagaaaa gaaagaccaa aacaatgaaa actttacgaa 960  
 104 aaatcaaaaa gttgaaggac tttaacgtcg agatctctcg tagaaaacct cttttgtaag 1020  
 105 gttgcataca atactttttt ttcagacttt acttatggta ttatactgaa tatgttattg 1080  
 106 ctgttatagt agttgagtga cgtttgaggg aatttctagt ccgttaatct tgtactcagt 1140  
 107 gtgtctactt ttcaaaaaag tcagtttttc agtctctaaa acacatttaa ataagagttt 1200  
 108 ctttgcceat cttttgttcc tcatcctagg cttggagtc acaacaacaca acaacaatga 1260  
 109 atttccattt ttctgtttct ttactctct ctttatctct tcctatgttt gcctcttcga 1320  
 110 cgggtgttatt tcaggatatc atctccaaag aaccttattt ttctcttaac ttttccatg 1380

\* The type of errors shown exist throughout  
 the Sequence Listing. Please check subsequent  
 sequences for similar errors. \*

## RAW SEQUENCE LISTING

DATE: 11/14/2001

PATENT APPLICATION: US/09/701,926A

TIME: 13:53:41

Input Set : A:\sequencelisting.txt

Output Set: N:\CRF3\11142001\I701926A.raw

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111 tatatgtatc tctatgttta tgtagtactt gctcaagtat ataaagaaaa gttagtttct 1440
112 ctagaatctt tgaattcatt tgtaggggt tcaattggga ttcgagtaat aagcaaggcg 1500
113 gatggtacaa ctctctcatc aacttagttc cggacttggc taaagctgga gttactcatg 1560
114 tttggttgcc accatcatct cactccgttt ctccctcaagg taattttcgg agtgattgtg 1620
115 acctagtaat ccaatgaagt caaaaataacc acggaagatt agagtctaaa ttttaatgaa 1680
116 aatagttcag acaagttaat gaccaactta tatattagtt caatccataa aatttgatgt 1740
117 agtagttaca aaatggaatt gottgaaggc ttatgccatg ttttatgcca gggtatatgc 1800
118 caggagaggt gtatgactag gatgcttcca agtttggaaa tcagcaacaa ctgaaaactc 1860
119 ttattaaggc tttacatga ccacgggac aaatcgggtg ctgatatagt gataaatcat 1920
120 agaactgctg ataacaaaga tagcagggga atatacagca tctttgaagg aggaacatct 1980
121 gatgaccggc ttgattgggg tccatctttc atttgcagga acgacacaca atattctgat 2040
122 ggcacgggga atccagacac ggggttggac tttgaacctg cacctgatat cgatcatctt 2100
123 aatacgagag tgcagaaaga gttatcagac tggatgaact ggctgaaatc tgaaattgga 2160
124 tttgatgggt ggcgtttcga ttttgttagg ggatatgcac cttgcattac caaaatttat 2220
125 atgggaaaca cgtcccgga ttttgctgtt ggtgaattgt ggaactctct tgcttatggc 2280
126 caggacggga aaccggaata taaccaggac aatcatagaa atgagctagt tggttgggta 2340
127 aaaaatgcgg ggcgggctgt aacagctttt gattttacaa caaagggaat tcttcaagct 2400
128 gcagttcaag aagagttatg gagattgaag gatcccaatg gaaaacctcc tgggatgatc 2460
129 ggtgttttgc ctogaaaagc tgtgactttt atcgataatc atgatactgg atcgacacaa 2520
130 aatatgtggc ctttcccttc agacaaaagt atgcaaggat atgcatacat tcttactcat 2580
131 ccaggaatcc cctccgtggt aaaaaaata aataaattct ttctacatat ctcatgtttt 2640
132 tctattttac aagaaattta tattcttttc caggggattt gagaaactcg gcctgtggga 2700
133 gtttgctcac attgccagtc tcgtaatcca taaacaaaca ctcaaactct gagtgtgcac 2760
134 atctagacac ctcaactcgt ttttcaccgt gttaattgaa cacttcaact taaaaatga 2820
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E--> 136 gagttggagt agtttagttgc caaataaaac caagctgagg tgtctaaatg tgcacnotca 2940
E--> 137 aagttnggatg tttacttggc agctgaggcc gagggccatgt ttgattgta tgcttatagg 3000
E--> 138 atatgacaca tttgtttccg attagctgag ganttgatta aatccctttt tttgttttca 3060
E--> 139 gtttathnac catthctttg atnngggctn cnaggatgga attncagcac taanctctat 3120
E--> 140 taggaaaagg aataggattt gtgcancag caatgtgcaa ataatggctc ctgattctga 3180
E--> 141 atctttatat ancaatggat catcacaaa tcattgtcaa gattggacca aaacttgatc 3240
142 ttggaaatct tattccacct aattatgagg tggcaacttc tggacaagac tatgctgtat 3300
143 gggagcaaaa ggcataatca tattgtacca cactaaaagg gaccatggcc acaatggttc 3360
144 tcattagtgt taatgttata tgattgaaaa tgtaatttat attgacataa tgaaggccaa 3420
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152 ttttgtaaac atctatagcc aaacggctcc aaaacaataa ataatttaca tttattgtag 3900
E--> 153 tattttatatt aaaatgggat ntctctcatc ccacttgtac cagttgaaac cctaataata 3960
154 agccaatcca accgtcaaaa ttacaaattt tgaaaattgc gctcctcaca gttctccctt 4020
155 attcagattt gattcattct ctccattttt tgttttcaca ttttacctct aaatcaactc 4080
156 gagtcccttt gttcaaatgg gtgctaatac cagccgtgaa gatctggagc tttctgattc 4140
157 cgagtctgaa tccgaatatg ggtccgagtc tcgaacaagg gaggaagagg aagacgaaga 4200
158 taactactca gatgctaaaa cgacgccgtc ttccactgat cggaaacaga gcaaaacccc 4260
159 gtcttctttt gatgatgttg aagcaaagct gaaagcttta aagcttaagt atggtactcc 4320

```

enumerated  
unknowns

## RAW SEQUENCE LISTING

DATE: 11/14/2001

PATENT APPLICATION: US/09/701,926A

TIME: 13:53:41

Input Set : A:\sequencelisting.txt

Output Set: N:\CRF3\11142001\I701926A.raw

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160 tcatgctaaa acccccacag cgaaaaacgc tgttaaactt taccttcatg ttggtgggaa 4380
161 cactgcgaat tccaaatggg tagtttctga taaggtgaca gcttattogt ttgttaaatac 4440
162 gggtagtgag gatggatcgg atgatgatga aaatgaagaa actgaggaga atgcttggtg 4500
163 ggttttgaaa attgggtcga aggttcgggc taagattgat gagaatttgc agctcaaggc 4560
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165 tggggaggaa gagtataagg cgttcattga cttatatcag agctgtttgt ttgagaatac 4680
166 ttatgggttt gaggcaaagt atgagaatag agttaagggt tatggtaaag actttatggg 4740
167 gtgggcaaag ccagaagctg cggatgattc aatgtgggag gatgctgggg atagcttcgc 4800
168 gaagagccct gcgtctgaaa agaagacacc tttgaggggt aacctagatt tgagggagga 4860
169 gtttgaggag gcagctaaag gaggagctat tcagagcttg gcattagggt cgttggataa 4920
170 tagttttctt ataagtgatt ctggaattca ggttgtagg aactatactc atggaataag 4980
171 tggaaaaggt gtttgtgtca attttgataa ggaaaggtct gctgtacctt attccactcc 5040
172 aaggaaagct ctacttctaa gagctgagac taatatgctt ctcattgagtc cagtgactga 5100
173 tagaaagcct cactctcggg gattacatca gtttgatata gagactggga aggttggttag 5160
174 cgagtggaaag tttgagaaag atggaactga tatcactgat agggatatca ctaatgatag 5220
175 caaaggagct cagatggatc cttcgggggt tactttctta gggctagatg ataacagatt 5280
176 gtgtaggttg gatatgcgtg atcggcatgg gatggtccag aatctagttg atgaaagtac 5340
177 tcctgtgctg aattggactc aaggacatca attttcgagg ggaactaact ttcagtgcct 5400
178 tgctactact ggtgatggat caattgttgt tggttcactt gatggcaaga ttagattgta 5460
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183 ggctggagct aacaagttcc gcagtgtcga attttcatgg gtcaccgaga atgggaagca 5760
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188 cagcatctct agcaggcgct tacaattttg aacaatcatt ctgttcatat acgcaactta 6060
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192 ttgctctaaa tcccgttca atg 6263

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194 &lt;210&gt; SEQ ID NO: 4

195 &lt;211&gt; LENGTH: 684

196 &lt;212&gt; TYPE: DNA

197 &lt;213&gt; ORGANISM: Tomato

199 &lt;400&gt; SEQUENCE: 4

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201 aaagtgactt tgtaatctga aacctagagt cctcaaccat atcattgacc attagccat 120
202 acccttaaat gtagggaatt tgaagtttta aaaaccacac tttgttattt attggccca 180
203 atactcgata atctttacat tattgaaaat caacattcaa aaggaacgaa ctttcaatca 240
204 caccatcaat gtcaactttc ttttattttg gataatctaa gtttttaaat tgcagtaaaa 300
E--> 205 tnaaataaaa ccctaaactt cttctaggtt gagacttagt aaatatgaat tatataaaga 360
206 attcatgaca aatgagacat aagaatagtg ccagcaaatt acttttttga tatcttatct 420
207 gtgatatcgg aatttttaact accataaatt tatgaatgaa atatcactta tctattagag 480
E--> 208 aggatttaat ctcccttata atgacattga taaaagcaag nacaagtgct ctttatttct 540
209 taattacaaa tccttaaata gataaaagct acgaataaca taatatectt aaatagataa 600
E--> 210 aagctacgaa taacataata gtatattact ccnaattatt ttgatttatt taaaatgact 660

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## RAW SEQUENCE LISTING

DATE: 11/14/2001

PATENT APPLICATION: US/09/701,926A

TIME: 13:53:41

Input Set : A:\sequencelisting.txt

Output Set: N:\CRF3\11142001\I701926A.raw

211 ccactaatcc tgatgtgggc tagg 684

269 <210> SEQ ID NO: 9

270 <211> LENGTH: 886

271 <212> TYPE: DNA

272 <213> ORGANISM: Tomato

274 <400> SEQUENCE: 9

275 ccgctcatga tccctgaaag cgacgttggg tggttaacatc tacaaattgc ctttttcttat 60

276 cgaccatgta cgtaagcgct tacgtttttg gtggaccctt gaggaaactg gtagctgttg 120

277 tgggcctgtg gtctcaagat ggatcattaa tttccacctt cacctacgat ggggggcac 180

278 gcaccggtga gtaatatgtt acgggctaaga gcgaatttgg cctgtagacc tcaattgcga 240

279 gcttttttaat ttcaaaactat tggggcctaa ctttttggtg gatgatgctg actggacaaa 300

280 ttcaacccaa taagcacatt cctcttataa gatccatccc aataacatgt aagttcaagg 360

281 actctaacca cacacaaatt cacatttcat ttgttaatca ccaaaaaacat ctttaagaatc 420

282 aacaaaaagc aagtagaatg tatcactcac attaaacttg acaaagaaat tctttggctc 480

283 ataacaactg ctgatcttga aaaaggaaga aaacagata tttaaaaga gagacgagaa 540

284 aagtagcatt gtatcatgatt taccagcttt tgtcccatca gaataacctc gtcatttcaa 600

E--> 285 tattcttttg attgcttggg acttgttcaa tcacattggt gctatcttta actgatctcg 660

286 atcctactgt tcttgtatag cactgagtta gaaccaaga agcacatcta agaactacat 720

287 ttgcactatt tgcaattata gagcttaaat atagccagtg ttttctgact aaacgaacga 780

288 ttgagatcaa aaatacaatt ccacatatag cacctgaaat aagtaacgga cctgagaaca 840

289 actctggtcc taatccagga tcatgttcca ccagccggg ccgtcg 886

303 <210> SEQ ID NO: 11

304 <211> LENGTH: 591

305 <212> TYPE: DNA

306 <213> ORGANISM: Tomato

308 <400> SEQUENCE: 11

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310 caaggactct aaccacacac aaattcacat ttcatgtgtt aatcaccaaa aacatcttaa 120

311 gaatcaacaa aaagcaagta gaatgtatca ctacattaa ctgcacaaa gaaattcttt 180

312 ggctcataac aactgctgat cttgaaaaag gaagaaaaac agatattttac aaagagagac 240

313 gagaaaagta gcattgttca tgattttacca gcttttgtcc catcagaata cctctgtcat 300

E--> 314 ttcaatatte ttttgattgc ttggnacttg ttcaatcaca ttgttgcata ctttaactga 360

315 tctcgatcct actgttcttg tatagcactg agttagaacc aaagaagcac atctaagaac 420

316 tacatttgca ctatttgcaa ttatagagct taaatatagc cagtgttttc tgactaaacg 480

317 aacgattgag atcaaaaaata caattccaca tatagcacct gaaataagta acggacctga 540

318 gaacaactct ggtcctaate caggatcatg ttccaccagc ccgggcccgc g 591

320 <210> SEQ ID NO: 12

321 <211> LENGTH: 1619

322 <212> TYPE: DNA

323 <213> ORGANISM: Tomato

325 <400> SEQUENCE: 12

E--> 326 gttgcttgat cntatcccat actcttttga gaatatgaag taggcgcaag tcgcaatgtc 60

327 aaatgcttct ttcatgtaca tccagtgtcg tctgcaagct tcattaatct tactcttact 120

328 caacaatttt cacttttctt caggaggatt ttaacgtgtg gaatttctgg agacttccac 180

329 ctctttatat tgattgaaaa ttagcagagt ccactctgaa ctattttttt ttgagattca 240

330 gggatggtag cccacggac aacgtaagat tcaggtaact tttatttata gtttcaactt 300

331 gtgatgctga aatttatagga attcgttaca tcagtgtaga ttccgaacac agtctgtgtg 360

332 gtcttatgtg ttttgtaact tcttgacgca aaaggctaatt gtgttttata ctataaatac 420

333 aagtcaagtt tgattgaacc acaaaacaagg ctcatgttat ctgtatatgg cagcgaaag 480

*same error*

*example*

Field 221 "unsure"

Field 222 (300... 360)

Field 223 n = 0, 1, 2 or 3

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

## RAW SEQUENCE LISTING

DATE: 11/14/2001

PATENT APPLICATION: US/09/701,926A

TIME: 13:53:41

Input Set : A:\sequencelisting.txt

Output Set: N:\CRF3\11142001\I701926A.raw

```

334 tggctagtgt atatagtatt gtcttatatc cgctcatcttg gaggaagaaa atcgtgtcct 540
335 cagttttctg atattctgct catcaatcat cgactagcca atacactttg gccctacata 600
336 tacacatact tatgagaagg aaaatacgaa atacgctcct tcaagacgag ttgaactttg 660
337 taaattgttg tagtattagt atatgttaat gaggaatgt agattttgtt gtagtttggt 720
338 gatttgtaga atctgtctta taaagggaact tacatgttga ggcaaaactgt ataaaggtta 780
339 aattgtcaat aacacacatc aaaatatattg accagtattt taagtaattt tttctgtata 840
340 aaggctatgt tgctcaaadc cttcaaaaat ctgcacagat gcatggcacc ggtagtgcac 900
341 ttttttgaat gagctggata cgagtgcacat aatatatttg ggaagtttga gcaaaataga 960
342 cctgaaatta cttttagctt ttctttttta aaggaatcgg atatgggtac aataatattt 1020
343 ttgaagagtc tgagcaacat agactactct cggtaggatg aggataagat tgaaatttta 1080
E--> 344 aaatgctcta aagagaaaat ttgtggataa gattctccac taattttnt atgacatgat 1140
345 gagattctgc ctaagagttc caagaatatg gtgcacctgt taataatgta tatattataa 1200
346 tagcataatc cactgttatg attttagcaa gctccttttt gtaatatatg aatgaacata 1260
347 aatataaaaa aggagagtta tatttgaacc atataaaaaa tgttacaagt atttttatat 1320
348 gaataatata ataaaaagta aaccttttcg acaaaaaaatt gattcatttc cttttttaac 1380
349 aattataacg gtttttaaat cctaataatc acctagtaaa aatatctatt tcaacccttc 1440
350 tcgcagctgt attgcctaaa acccatatca cccccacgta gcctaaaatt tactttatac 1500
351 tacgttggtt tgttttctcat ttttatttat ctttaattta tctctgtaa aaagactcaa 1560
352 agatgttttc tttaaatttt actttatttt ttttaggata aaaaatttgc aattcctaa 1619
354 <210> SEQ ID NO: 13
355 <211> LENGTH: 1193
356 <212> TYPE: DNA
357 <213> ORGANISM: Tomato
359 <400> SEQUENCE: 13
360 tgagtagaag ataaacttga caacgcatta gctcgaataa gaggcataaat aaaaaagttt 60
361 taactttaag aatccgtgca aaaaatcadc tactcaatta actcgatcaa tattctttca 120
362 tcggtaactt acccgtttgg tattatatgt gtaaatatac ctaaataata atacgagctc 180
363 ataataacct aataaaaaata ttaggcataa tagcgggtgtt gttttgttag actcagtatt 240
364 ttttatattt tataaaataa atactacgct ctttcaccaa acaattcttc aacgttaaat 300
365 attcttgacg gttttgttct gaaactatga ttctctttta gattttgggt ttgttgattt 360
366 ctgatcaaaa actaaaagag aataattctt ctcccatttt attgctatct ttttatgatt 420
367 gatttgttgg ggggttcagca aatttatatta tgtttcttta gtttttcctc ttttatctgt 480
368 atttgaatct tgatcaatta atgttctttg atcatttgtt tgttagaata caaatagcgc 540
369 agcaagagaa aaagatttag gaaatgagta aagattggat ttttatggga aagatctaaa 600
370 gatttgggtt aagggtattaa tgaattgagc atatgagcta aaaaatcaat cttgggtgag 660
371 agggatatgt atttgtggaa gttttgttag cttttcttgt atgtattgat attagatgat 720
E--> 372 ttaaacagag tcaactaacat tcatatagct gaccttgaat tgtttaggnc agtggcgtag 780
373 tagttgttgt tgttataaga gaatgagtgc tatggggagg ataggtagtt acataggtag 840
E--> 374 aggggtacgt agtgtttcgg ggacgttgaa tccatttggg ggttctgtgg atatcattgt 900
375 ggtgaggcag ccagatggga gtttgaaatc aactccttgg tatgttagat ttgggaagat 960
376 tcagggggtt ttgaaggcta gagaaaatgc ggttaatgta agtgtcaatg gcgttgaaag 1020
377 tggttttcgt atgaatttag atactagagg gcaggcatac ttctaaggg agcgagacat 1080
378 ggaaaatgga tattctttta ctactcgaac atttgaacaa cttgcacctt tgaatctgaa 1140
E--> 379 ggaggaaaga atgtggttga ttctcctgct caaaacccca gccggggccg tcg 1193
381 <210> SEQ ID NO: 14
382 <211> LENGTH: 222
383 <212> TYPE: DNA
384 <213> ORGANISM: Tomato
386 <400> SEQUENCE: 14

```

*Field 222 (120... 1193)*

## RAW SEQUENCE LISTING

DATE: 11/14/2001

PATENT APPLICATION: US/09/701,926A

TIME: 13:53:41

Input Set : A:\sequencelisting.txt

Output Set: N:\CRF3\11142001\I701926A.raw

```

E--> 387 tatgtttgctc aaatccttca aaaatctcga cagatgcatg nnnnnnnnng caccggtag 60
      388 tgcattttttt tgaatgagct ggatacgagt gcaataatat atttggaag tttgagcaaa 120
E--> 389 atagacctga aattactttt agcttttctt ttttaaagnn nnnnnnnnnn nngaatecga 180
E--> 390 tatgggtaca ataataatttt tgaagagtcn tgagcaacat ag 222
      392 <210> SEQ ID NO: 15
      393 <211> LENGTH: 222
      394 <212> TYPE: DNA
      395 <213> ORGANISM: Potato
      397 <400> SEQUENCE: 15
      398 tatgtttgctc aaacacttca aaaatgtcca cagggtgcgtg tcggatactc caaaaagtag 60
E--> 399 tgtattttagg tgtgtgnnnn tgatattagt nnnagtgtat atttaggntg tgtgtggata 120
E--> 400 gtagnnnntgt atttagatgt gtgtgatatt tcaaaaagtt gtgtattttg gagaatttga 180
      401 tacgggtgcg gcaacaattt tgaagagtca ggagcaaaaat ag 222
      531 <210> SEQ ID NO: 32
      532 <211> LENGTH: 1588
      533 <212> TYPE: DNA
      534 <213> ORGANISM: Tomato
      536 <400> SEQUENCE: 32
      537 atcaagttga aatatgttaa caaaatgtac agtttttatta tttttatttt atttataaaa 60
      538 aaaaaattgt acaagaagaa aaaatccctt ccttctgtat ttccatgtga tgtttaaatg 120
      539 gcatttgagt aaaagccaca aaaggcccat gtgaaattta taaaattttg aaacattttt 180
      540 gcataacaaa acaatacata agaggacacg taaaacttac taaaagagtt tttagttacg 240
      541 tataagcaaa gtttgagatt cccaagaaga aagagtttga aaataactaaa tgtcttggtg 300
      542 tcatccatat atatatatat gaatgaattc tcacatttgt gatcaagatt tctttatgca 360
E--> 543 tgntaatatt tatatttggga aattaaccgt cgattaatta agattatcat tgaataagggt 420
      544 ttgaaaaaga taaattgaac tatttcactt ttggagtgtt attgttatct gctaggtcaa 480
      545 tttagaatca taaattggaa ataaaaagac aacaatgcc ttttcttttc ttggatactt 540
      546 tgagggttga ctaaaggaca tataaaaagg tgaaaaagct aaaagtttca ctaataacta 600
      547 atttttattt tactttgtct tgtgtactaa acttttccat gtcttttcct ttcaatttcc 660
      548 agttgtgatg gatagtaaat tttctatagc attcaacaca aggacaaaac actaagcaac 720
      549 aaaagcatcc aaaaaccaag attagcaatg tgcaaatgaa gctttatgta tgatcaaaaa 780
      550 cacaacttgg aagttggaac tacctatctt agattccatc actttttttt tgttctccat 840
      551 cgatattcat cgatattcag tattcgagct ccgattaaat cataattcga taaagcgtac 900
      552 ttttaataaaa ataatttcac tcgaaggcct caatctgaaa ccaactgatta ttaaaaatga 960
      553 aagaattcta tcattattcc atatcttttt aggagattca agttaaaata gacaaccttt 1020
      554 ttcttttaaat attgtcacia tggtaataga tgcattgcgc cctaatttca cattttttta 1080
      555 tataccaggc tatcattaac ttttttttta tttaaaaaac tttaatgatt tcgaagaaat 1140
      556 aatgactata taaaaaaaac aagaaatatt agtagccatc attatgtata tgagcaaaac 1200
      557 aaacgaaaat ggaactatgg caacatcatg gaagctagga ataaacagct ccacttcaca 1260
      558 agagaacaaa gttcatgttg tactattata ctttttttta ttttgacctc ttttaatatc 1320
      559 gtatatatta agcaagttgt taatcatata ccatctttta aatatttact tttgaaatca 1380
      560 taaaaaaatt gatgaaaaaa gttattatca tatctgttct tgcgtgagaa ataacaaata 1440
      561 tattttaagat gcacaaaaat tgattcgaac tagacttttt ttaaaaaaaa ataaaaaaca 1500
      562 tgatgaaact ctaggtgggg tattcttttt gtcaattact actaacaag attgttgaaa 1560
      563 aagaagccaa ttatatgatt catcaata 1588
      565 <210> SEQ ID NO: 33
      566 <211> LENGTH: 1307
      567 <212> TYPE: DNA
      568 <213> ORGANISM: Tomato

```



## RAW SEQUENCE LISTING

DATE: 11/14/2001

PATENT APPLICATION: US/09/701,926A

TIME: 13:53:41

Input Set : A:\sequencelisting.txt

Output Set: N:\CRF3\11142001\I701926A.raw

```

570 <400> SEQUENCE: 33
571 ttggacttcc taccagcag ttcacacatc aatatcattt aattaaaatt aaagccattt 60
572 atttaggaaa taaatagcat aaaaaaaaca ctaataatta aaacatttgt gtcaaagga 120
573 aagtatatgt actaatTTTT tgcatatgtg gtcaaagga ggaatttttt aattacaaaa 180
574 aaaaaagttt tatggtggga atcaaacata ttataggata attaaagaga tggatttatt 240
575 atattttgtg taatctatta attattaaat ggcttaattt tgtatccact aataatataa 300
576 gtaattttcta tatattcagt acaatttgac tagctccaac agctttccca gtaacacata 360
577 ttatatacagt tgcattctac tataataaaa atatgtaaat attttctctt taccgtaact 420
578 ccagtaaaac ttaactcta attaataata caacactaat ctaggcaagc tgtagactgt 480
579 aattaattgc atgttttaaa tctgtgaagg gtcgtttggc ataaaaatac ataatgcagg 540
580 gattattaac gtatagatta gtaatacata gattagtaat gcatggatta gtttttatca 600
581 agtgtttgat tcattgtttc ctacttaatc ttatgtttag tttaaaactc tagaaaaata 660
582 tatttccctat tatacctttg agttattgtg agaatttgta tttcatttaa ctagtcaagt 720
E--> 583 taaatncnaa tttatatata tatatatata ttattaattt tgaggtgtga tatgtcacac 780
584 tgtatatattt taattttttg ttggtcaaat ataccttgaa cttaaactatg gatttaaggc 840
E--> 585 tatttaaatt gtcaaatac acgaacctta ttttttttat aaaanaatca agtgggtcaat 900
E--> 586 cgcaaaactac atttataaaa naaaggccaa aaaaatcaat ccaatataac agctcataca 960
587 tggagaaaaa attagtttat gaaatcatca aattacatgg aataaatttg gagaatttaa 1020
E--> 588 atgaatatatt ataaatatatt tcatataaat aaaaaagaac attaattaca aatanaataa 1080
589 tagaaaaaaa atttgaggat attttagtca ttttggaatc ttttcgaagg attgctaaac 1140
590 cttgaattag ctatccctcc atttccctagg gataaaaata gacctgtat gaggtataac 1200
591 taatctatgg attaggttaa ataaagtaac caaacaatat ttttgttgga ctaaatttta 1260
E--> 592 atccatggat tcnttggatt aatacctcct accagcccg ggcgtcg 1307
594 <210> SEQ ID NO: 34
595 <211> LENGTH: 255
596 <212> TYPE: DNA
597 <213> ORGANISM: Tomato
599 <400> SEQUENCE: 34
600 ggtcgttttg cataaaaata cataatgcag ggattattaa cgtatagatt agtaatacat 60
601 agattagtaa tgcattgatt agtttttatc aagtgtttga ttcattgttt cctacttaat 120
E--> 602 cttatgttta gtttaaaact ctagaaaaat anntatttcc tattatacct ttgagttatt 180
E--> 603 gtgagaattt gtatttcatt taactnagtc aagttaaatt cnaatttata tatatatata 240
604 tatattatta atttt 255
606 <210> SEQ ID NO: 35
607 <211> LENGTH: 255
608 <212> TYPE: DNA
609 <213> ORGANISM: Tomato
611 <400> SEQUENCE: 35
E--> 612 gatcgtacgg tacaagatc aatacttcag gnnnnnnnnn nnnnnngagt agtaatacat 60
E--> 613 tttttggtaa tgcagagatt antttttatc aagtgtttgg ttcattgttt nttacctaatt 120
614 tttgtgtgtg gtttaagtt tacaataaat aattctttcc aattatacgc taaagttatt 180
E--> 615 atgagatttt atatttcatt taattgggtc aannnaatag ataattgacc gataatatta 240
616 ttttttataa cattt 255
647 <210> SEQ ID NO: 39
648 <211> LENGTH: 197
649 <212> TYPE: DNA
650 <213> ORGANISM: Tomato
652 <400> SEQUENCE: 39
E--> 653 ttatatattt gtatttgtat aaagtgaag agacgatggn gagagtagcg agcgagatta 60

```

## RAW SEQUENCE LISTING

DATE: 11/14/2001

PATENT APPLICATION: US/09/701,926A

TIME: 13:53:41

Input Set : A:\sequencelisting.txt

Output Set: N:\CRF3\11142001\I701926A.raw

E--> 654 aaaaagagtg gcgaacgnnn nnagatatgc cgtaaattag aattaaatga aactgtcatt 120  
E--> 655 ataacattta ttttgaataa ataattttga tataatacac aattttcnnt taaaaagcaa 180  
E--> 656 cgannnnnnng ataatgt 197  
E--> 659 - 1

Delete End of file Non ASCII text

## VERIFICATION SUMMARY

DATE: 11/14/2001

PATENT APPLICATION: US/09/701,926A

TIME: 13:53:42

Input Set : A:\sequencelisting.txt

Output Set: N:\CRF3\11142001\I701926A.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:136 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3  
M:340 Repeated in SeqNo=3  
L:200 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4  
M:340 Repeated in SeqNo=4  
L:285 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9  
L:314 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:11  
L:326 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12  
M:340 Repeated in SeqNo=12  
L:372 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:13  
M:340 Repeated in SeqNo=13  
L:387 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14  
M:340 Repeated in SeqNo=14  
L:399 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15  
M:340 Repeated in SeqNo=15  
L:543 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:32  
L:583 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:33  
M:340 Repeated in SeqNo=33  
L:602 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:34  
M:340 Repeated in SeqNo=34  
L:612 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:35  
M:340 Repeated in SeqNo=35  
L:653 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:39  
M:340 Repeated in SeqNo=39  
L:659 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:197 SEQ:39